

### **Abstract**

A method and apparatus for modeling a uniform transmission line obtains measured s-parameters of an connectivity system in combination with the uniform transmission line and mathematically isolates a representative portion of the uniform transmission line from the connectivity system by identifying an electrical position of the representative portion as distinct from the connectivity system. The measured s-parameters are adjusted to represent s-parameters of only the representative portion. Telegrapher's Equation transmission parameters are then extracted from the adjusted measured s-parameters.